

# WEST Search History

DATE: Thursday, May 12, 2005

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L18	L17 and ((phase with position) or (adjacent with slice) or (consecutive with slice) or (phase with difference))	5
<input type="checkbox"/>	L17	L16 and (weight\$4 or normaliz\$4 or normalization)	11
<input type="checkbox"/>	L16	L15 and (amplitude)	28
<input type="checkbox"/>	L15	L14 and (phase)	29
<input type="checkbox"/>	L14	L13 and (difference or different or opposite or alternat\$4)	29
<input type="checkbox"/>	L13	L12 and ("without" slice select\$4)	29
<input type="checkbox"/>	L12	((magnetic adj resonance) or MRI or NMR)	202618
<input type="checkbox"/>	L11	L9 and (difference or different or opposite or alternat\$4)	1
<input type="checkbox"/>	L10	L9 and (difference or opposite or alternat\$4)	1
<input type="checkbox"/>	L9	L7 and (phase)	1
<input type="checkbox"/>	L8	L7 and ((difference or opposite or alternat\$4) with phase)	0
<input type="checkbox"/>	L7	L6 and (phase with position)	1
<input type="checkbox"/>	L6	L3 and (amplitude)	1
<input type="checkbox"/>	L5	L4 and (amplitude)	0
<input type="checkbox"/>	L4	L3 and (phase with difference)	1
<input type="checkbox"/>	L3	L1 and (adjacent with slice)	4
<input type="checkbox"/>	L2	L1 and (consecutive with slice)	1
<input type="checkbox"/>	L1	fetzner	254

END OF SEARCH HISTORY

# Hit List

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## Search Results - Record(s) 1 through 11 of 11 returned.

### ☐ 1. Document ID: US 20050030024 A1

L17: Entry 1 of 11

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050030024

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050030024 A1

TITLE: Methods for multiple acquisitions with global inversion cycling for vascular-space-occupancy dependant and apparatuses and devices related thereto

PUBLICATION-DATE: February 10, 2005

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Golay, Xavier	Singapore	NY	SG	
Lu, Hanzhang	Baltimore	MD	US	
Zijl, Peter C.M. van	Elicott city		US	

US-CL-CURRENT: 324/307; 324/306, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PMC	Draw D
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### ☐ 2. Document ID: US 20030234647 A1

L17: Entry 2 of 11

File: PGPB

Dec 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030234647

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030234647 A1

TITLE: System and method for converting adiabatic RF pulses into pseudo adiabatic RF pulses

PUBLICATION-DATE: December 25, 2003

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Beaudoin, Gilles	Montreal		CA	
Cote, Jean-Charles	Montreal		CA	

US-CL-CURRENT: 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 3. Document ID: US 6809518 B2

L17: Entry 3 of 11

File: USPT

Oct 26, 2004

US-PAT-NO: 6809518

DOCUMENT-IDENTIFIER: US 6809518 B2

TITLE: System and method for converting adiabatic RF pulses into pseudo adiabatic RF pulses

DATE-ISSUED: October 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beaudoin; Gilles	Montreal, Quebec		H2L 4M1	CA
Cote; Jean-Charles	Montreal, Quebec		H2L 4M1	CA

US-CL-CURRENT: 324/314; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 4. Document ID: US 6681132 B1

L17: Entry 4 of 11

File: USPT

Jan 20, 2004

US-PAT-NO: 6681132

DOCUMENT-IDENTIFIER: US 6681132 B1

TITLE: Sodium magnetic resonance imaging used in diagnosing tumors and assessing response to treatment

DATE-ISSUED: January 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Katz; Jose	Closter	NJ		
Kline; Richard Paul	Riverdale	NY		
Wu; Edward X.	New York	NY		

US-CL-CURRENT: 600/410; 324/307, 424/9.2, 436/173, 436/63, 436/64

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 5. Document ID: US 6541971 B1

L17: Entry 5 of 11

File: USPT

Apr 1, 2003

US-PAT-NO: 6541971  
DOCUMENT-IDENTIFIER: US 6541971 B1

TITLE: Multi-dimensional spatial NMR excitation

DATE-ISSUED: April 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dannels; Wayne R	Richmond Hts.	OH		

US-CL-CURRENT: 324/309; 324/307, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 6. Document ID: US 6275040 B1

L17: Entry 6 of 11

File: USPT

Aug 14, 2001

US-PAT-NO: 6275040  
DOCUMENT-IDENTIFIER: US 6275040 B1

TITLE: Designing spectral-spatial pulses

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zur; Yuval	34752, Haifa			IL

US-CL-CURRENT: 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 7. Document ID: US 5926021 A

L17: Entry 7 of 11

File: USPT

Jul 20, 1999

US-PAT-NO: 5926021  
DOCUMENT-IDENTIFIER: US 5926021 A

TITLE: Method of magnetic resonance imaging for the time-resolved imaging of pulsatile vessels (projection angiography)

DATE-ISSUED: July 20, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hennig; Jurgen	D-79100 Freiburg			DE

US-CL-CURRENT: 324/306; 324/300, 324/301, 324/307, 324/309, 324/314, 324/316,  
324/319, 324/320, 600/316, 600/473

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 8. Document ID: US 5608322 A

L17: Entry 8 of 11

File: USPT

Mar 4, 1997

US-PAT-NO: 5608322

DOCUMENT-IDENTIFIER: US 5608322 A

TITLE: Method of and apparatus for obtaining NMR information

DATE-ISSUED: March 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Loneragan; Andrew R.	London			GB2
McDonald; Peter J.	Surrey			GB2

US-CL-CURRENT: 324/309; 324/307, 324/314

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 9. Document ID: US 5345175 A

L17: Entry 9 of 11

File: USPT

Sep 6, 1994

US-PAT-NO: 5345175

DOCUMENT-IDENTIFIER: US 5345175 A

TITLE: Dipolar weighted MR imaging in-vivo

DATE-ISSUED: September 6, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kasuboski; Larry	Solon	OH		
Gullapalli; Rao P.	Richmond Heights	OH		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 10. Document ID: US 5327087 A

L17: Entry 10 of 11

File: USPT

Jul 5, 1994

US-PAT-NO: 5327087  
DOCUMENT-IDENTIFIER: US 5327087 A

TITLE: NMR magic sandwich imaging method

DATE-ISSUED: July 5, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hafner; Siegfried	Blaustein			DE
Demco; Dan E.	Cluy-Napoca			RO
Kimmich; Rainer	Ulm			DE

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 11. Document ID: US 4707658 A

L17: Entry 11 of 11

File: USPT

Nov 17, 1987

US-PAT-NO: 4707658  
DOCUMENT-IDENTIFIER: US 4707658 A

TITLE: Method of rapid acquisition of spin resonance data for a spatially resolved investigation of an object

DATE-ISSUED: November 17, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Frahm; Jens	Goettingen			DE
Haase; Axel	Goettingen			DE
Matthaei; Dieter	Goettingen			DE
Haenicke; Wolfgang	Goettingen			DE
Merboldt; Klaus-Dietmar	Goettingen			DE

US-CL-CURRENT: 324/309; 324/316, 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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Term	Documents
NORMALIZATION	31518
NORMALISATION	3041
NORMALISATIONS	13

NORMALIZATIONS	597
WEIGHT\$4	0
WEIGHT	2672893
WEIGHTA	67
WEIGHTAACK	1
WEIGHTAAIN	1
WEIGHTABL	1
WEIGHTABLE	69
(L16 AND (WEIGHT\$4 OR NORMALIZ\$4 OR NORMALIZATION) ).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	11

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## WEST Search History





DATE: Thursday, May 12, 2005

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		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L14	L13 and (optimal\$3 or optimiz\$4 or optimization)	11
<input type="checkbox"/>	L13	L12 and (weight\$4)	23
<input type="checkbox"/>	L12	L11 and (amplitude or magnitude or height)	43
<input type="checkbox"/>	L11	L10 and (voxel)	45
<input type="checkbox"/>	L10	L9 and (puls\$3 or burst)	213
<input type="checkbox"/>	L9	L8 and (pwm or modulat\$4)	221
<input type="checkbox"/>	L8	L7 and (phase with difference)	376
<input type="checkbox"/>	L7	L6 and (angle or difference)	1229
<input type="checkbox"/>	L6	L5 and (flip\$4 or tip\$4 or rotat\$4 or nutat\$4)	1340
<input type="checkbox"/>	L5	L4 and (locat\$4 or locationally or position\$4)	1825
<input type="checkbox"/>	L4	L3 and ((space or spatial\$3) with (resolved or resolv\$3 or resolution or dependen\$4 or phase))	1896
<input type="checkbox"/>	L3	L2 and (antenna or antennae or probe or coil)	7771
<input type="checkbox"/>	L2	L1 and (field with (strength or flux or strong or density))	11350
<input type="checkbox"/>	L1	((magnetic adj resonance) or MRI or NMR)	202618

END OF SEARCH HISTORY



# Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
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Search Results - Record(s) 1 through 23 of 23 returned.

☐ 1. Document ID: US 20050033156 A1

L13: Entry 1 of 23

File: PGPB

Feb 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050033156  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050033156 A1

TITLE: Method and magnetic resonance tomography apparatus for correcting changes in the basic magnetic field

PUBLICATION-DATE: February 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kruger, Gunnar	Erlangen		DE	
Thesen, Stefan	Erlangen		DE	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Image	Draw D.
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☐ 2. Document ID: US 20040164737 A1

L13: Entry 2 of 23

File: PGPB

Aug 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040164737  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040164737 A1

TITLE: Method for determining the B1 field strength in MR measurements

PUBLICATION-DATE: August 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Feiweier, Thorsten	Poxdorf		DE	

US-CL-CURRENT: 324/309; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Image	Draw D.
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☐ 3. Document ID: US 20040090230 A1

L13: Entry 3 of 23

File: PGPB

May 13, 2004

PGPUB-DOCUMENT-NUMBER: 20040090230  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040090230 A1

TITLE: Method and apparatus for subterranean formation flow imaging

PUBLICATION-DATE: May 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Appel, Matthias	Norwich	TX	GB	
Freeman, John Justin	Houston	TX	US	
Winkler, Mario	Houston	DE	US	
Blumich, Bernhard Peter Jakob	Roetgen		US	

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Index	Drawings
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☐ 4. Document ID: US 20040064032 A1

L13: Entry 4 of 23

File: PGPB

Apr 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040064032  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040064032 A1

TITLE: Data acquisition method and apparatus for MR imaging

PUBLICATION-DATE: April 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ma, Jingfei	Houston	TX	US	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Index	Drawings
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☐ 5. Document ID: US 20040051527 A1

L13: Entry 5 of 23

File: PGPB

Mar 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040051527  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040051527 A1

TITLE: Method and apparatus for spin-echo-train MR imaging using prescribed signal evolutions

PUBLICATION-DATE: March 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mugler III, John P	Charlottesville	VA	US	
Brookeman, James R.	Charlottesville	VA	US	

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 6. Document ID: US 20030153826 A1

L13: Entry 6 of 23

File: PGPB

Aug 14, 2003

PGPUB-DOCUMENT-NUMBER: 20030153826

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030153826 A1

TITLE: Reduction of motion artifact in nmr images using spherical navigator signals

PUBLICATION-DATE: August 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jack, Clifford r	Rochester	MN	US	
Manduca, Armando	Rochester	MN	US	
Grimm, Roger	Rochester	MN	US	
Welch, Edward B	Rochester	MN	US	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 7. Document ID: US 20020165349 A1

L13: Entry 7 of 23

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020165349

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020165349 A1

TITLE: Iron regulating protein -2 (IRP-2) as a diagnostic for neurodegenerative disease

PUBLICATION-DATE: November 7, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kirsch, Wolff M.	Redlands	CA	US	
Lennart, Anto	Loma Linda	CA	US	
Kelln, Wayne J.	Loma Linda	CA	US	
Kang, Dae-Kyung	Rockville	MD	US	
Levine, Rodney L.	Rockville	MD	US	
Rouault, Tracey A.	North Bethesda	MD	US	

US-CL-CURRENT: 530/350; 435/6, 435/7.1, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. G.
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☐ 8. Document ID: US 6856132 B2

L13: Entry 8 of 23

File: USPT

Feb 15, 2005

US-PAT-NO: 6856132

DOCUMENT-IDENTIFIER: US 6856132 B2

TITLE: Method and apparatus for subterranean formation flow imaging

DATE-ISSUED: February 15, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Appel; Matthias	Norwich			GB
Freeman; John Justin	Houston	TX		
Winkler; Mario	Houston	TX		
Blumich; Bernhard Peter Jakob	Roetgen			DE

US-CL-CURRENT: 324/303; 324/306

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Draw. G.
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☐ 9. Document ID: US 6741880 B1

L13: Entry 9 of 23

File: USPT

May 25, 2004

US-PAT-NO: 6741880

DOCUMENT-IDENTIFIER: US 6741880 B1

TITLE: Method and apparatus for efficient stenosis identification and assessment using MR imaging

DATE-ISSUED: May 25, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Foo; Thomas K. F.                      Rockville                      MD  
Ho; Vincent B.                      North Bethesda                      MD  
Saranathan; Manojkumar                      Rockville                      MD

US-CL-CURRENT: 600/419; 324/300, 324/307, 382/128, 600/407, 600/410, 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 10. Document ID: US 6541971 B1

L13: Entry 10 of 23

File: USPT

Apr 1, 2003

US-PAT-NO: 6541971

DOCUMENT-IDENTIFIER: US 6541971 B1

TITLE: Multi-dimensional spatial NMR excitation

DATE-ISSUED: April 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dannels; Wayne R	Richmond Hts.	OH		

US-CL-CURRENT: 324/309; 324/307, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 11. Document ID: US 6408201 B1

L13: Entry 11 of 23

File: USPT

Jun 18, 2002

US-PAT-NO: 6408201

DOCUMENT-IDENTIFIER: US 6408201 B1

TITLE: Method and apparatus for efficient stenosis identification in peripheral arterial vasculature using MR imaging

DATE-ISSUED: June 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Foo; Thomas K. F.	Rockville	MD		
Ho; Vincent B.	North Bethesda	MD		

US-CL-CURRENT: 600/410; 324/300, 324/307, 382/128, 600/419, 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 12. Document ID: US 6265873 B1

L13: Entry 12 of 23

File: USPT

Jul 24, 2001

US-PAT-NO: 6265873

DOCUMENT-IDENTIFIER: US 6265873 B1

TITLE: Non-CPMG fast spin echo MRI method

DATE-ISSUED: July 24, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Le Roux; Patrick L.	Palaiseau			FR

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 13. Document ID: US 6147492 A

L13: Entry 13 of 23

File: USPT

Nov 14, 2000

US-PAT-NO: 6147492

DOCUMENT-IDENTIFIER: US 6147492 A

TITLE: Quantitative MR imaging of water and fat using a quadruple-echo sequence

DATE-ISSUED: November 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zhang; Weiguo	Foster City	CA		
Carlson; Joseph W.	Kensington	CA		

US-CL-CURRENT: 324/309; 324/307, 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 14. Document ID: US 6091243 A

L13: Entry 14 of 23

File: USPT

Jul 18, 2000

US-PAT-NO: 6091243

DOCUMENT-IDENTIFIER: US 6091243 A

TITLE: Water-fat imaging with direct phase encoding (DPE)

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Xiang; Qing-San	Vancouver			CA
An; Li	Vancouver			CA

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Image	Drawings
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☐ 15. Document ID: US 6005916 A

L13: Entry 15 of 23

File: USPT

Dec 21, 1999

US-PAT-NO: 6005916

DOCUMENT-IDENTIFIER: US 6005916 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Apparatus and method for imaging with wavefields using inverse scattering techniques

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Steven A.	Salt Lake City	UT		
Borup; David T.	Salt Lake City	UT		
Wiskin; James W.	Salt Lake City	UT		
Natterer; Frank	Muenster			DE
Wubeling; F.	Muenster			DE
Zhang; Yongzhi	Madison	WI		
Olsen; Scott Charles	Salt Lake City	UT		

US-CL-CURRENT: 378/87; 378/98, 600/425, 600/437

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Image	Drawings
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☐ 16. Document ID: US 5995863 A

L13: Entry 16 of 23

File: USPT

Nov 30, 1999

US-PAT-NO: 5995863

DOCUMENT-IDENTIFIER: US 5995863 A

TITLE: Method and an automatic system for obtaining water content and electric-permittivity maps from magnetic resonance images

DATE-ISSUED: November 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Farace; Paolo	Trento			IT

Pontalti; Rolando	Marco - Rovereto	IT
Cristoforetti; Luca	Trento	IT
Scarpa; Marina	Cognola	IT
Antolini; Renzo	Cognola	IT

US-CL-CURRENT: 600/410; 324/307, 324/312

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 17. Document ID: US 5910728 A

L13: Entry 17 of 23

File: USPT

Jun 8, 1999

US-PAT-NO: 5910728

DOCUMENT-IDENTIFIER: US 5910728 A

TITLE: Simultaneous acquisition of spatial harmonics (SMASH): ultra-fast imaging with radiofrequency coil arrays

DATE-ISSUED: June 8, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel Kevin	Cambridge	MA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 18. Document ID: US 5499629 A

L13: Entry 18 of 23

File: USPT

Mar 19, 1996

US-PAT-NO: 5499629

DOCUMENT-IDENTIFIER: US 5499629 A

TITLE: Slice profile stabilization for segmented k-space magnetic resonance imaging

DATE-ISSUED: March 19, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kerr; Adam B.	Stanford	CA		
Pauly; John M.	San Francisco	CA		

US-CL-CURRENT: 600/410; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 19. Document ID: US 5321359 A

L13: Entry 19 of 23

File: USPT

Jun 14, 1994

US-PAT-NO: 5321359

DOCUMENT-IDENTIFIER: US 5321359 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Selective imaging among three or more chemical species

DATE-ISSUED: June 14, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schneider; Erika	New Berlin	WI		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 20. Document ID: US 5101156 A

L13: Entry 20 of 23

File: USPT

Mar 31, 1992

US-PAT-NO: 5101156

DOCUMENT-IDENTIFIER: US 5101156 A

TITLE: Rapid flow measurement using an NMR imaging system

DATE-ISSUED: March 31, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Pelc; Norbert J.	Los Altos	CA		

US-CL-CURRENT: 324/306; 324/300

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 21. Document ID: US 5019784 A

L13: Entry 21 of 23

File: USPT

May 28, 1991

US-PAT-NO: 5019784

DOCUMENT-IDENTIFIER: US 5019784 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Time symmetric pulse to uniformly rotate magnetization vectors by an arbitrary angle in the presence of large B1 inhomogeneities and resonance offsets

DATE-ISSUED: May 28, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Garwood; Michael	Shorewood	MN		
Ugurbil; Kamil	Maple Plain	MN		

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 22. Document ID: US 4812760 A

L13: Entry 22 of 23

File: USPT

Mar 14, 1989

US-PAT-NO: 4812760

DOCUMENT-IDENTIFIER: US 4812760 A

TITLE: Multi-dimensional selective NMR excitation with a single RF pulse

DATE-ISSUED: March 14, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bottomley; Paul A.	Clifton Park	NY		
Hardy; Christopher J.	Schenectady	NY		
O'Donnell; Matthew	Schenectady	NY		
Roemer; Peter B.	Schenectady	NY		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☐ 23. Document ID: US 4694254 A

L13: Entry 23 of 23

File: USPT

Sep 15, 1987

US-PAT-NO: 4694254

DOCUMENT-IDENTIFIER: US 4694254 A

**\*\* See image for Certificate of Correction \*\***TITLE: Radio-frequency spectrometer subsystem for a magnetic resonance imaging system

DATE-ISSUED: September 15, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vatis; Dimitrios	Schenectady	NY		
Smith; Lowell S.	Schenectady	NY		

US-CL-CURRENT: 324/309; 324/313, 324/314, 324/322

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
WEIGHT\$4	0
WEIGHT	2672893
WEIGHTA	67
WEIGHTAACK	1
WEIGHTAAIN	1
WEIGHTABL	1
WEIGHTABLE	69
WEIGHTABLY	3
WEIGHTAC	1
WEIGHTACID	1
WEIGHTACT	1
(L12 AND (WEIGHT\$4)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	23

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☐ 1. Document ID: US 20040164737 A1

L14: Entry 1 of 11

File: PGPB

Aug 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040164737

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040164737 A1

TITLE: Method for determining the B1 field strength in MR measurements

PUBLICATION-DATE: August 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Feiweier, Thorsten	Poxdorf		DE	

US-CL-CURRENT: 324/309; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	INID	Drawings
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☐ 2. Document ID: US 20030153826 A1

L14: Entry 2 of 11

File: PGPB

Aug 14, 2003

PGPUB-DOCUMENT-NUMBER: 20030153826

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030153826 A1

TITLE: Reduction of motion artifact in nmr images using spherical navigator signals

PUBLICATION-DATE: August 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jack, Clifford r	Rochester	MN	US	
Manduca, Armando	Rochester	MN	US	
Grimm, Roger	Rochester	MN	US	
Welch, Edward B	Rochester	MN	US	

US-CL-CURRENT: 600/410

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	INID	Drawings
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☐ 3. Document ID: US 20020165349 A1

L14: Entry 3 of 11

File: PGPB

Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020165349

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020165349 A1

TITLE: Iron regulating protein -2 (IRP-2) as a diagnostic for neurodegenerative disease

PUBLICATION-DATE: November 7, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kirsch, Wolff M.	Redlands	CA	US	
Lennart, Anto	Loma Linda	CA	US	
Kelln, Wayne J.	Loma Linda	CA	US	
Kang, Dae-Kyung	Rockville	MD	US	
Levine, Rodney L.	Rockville	MD	US	
Rouault, Tracey A.	North Bethesda	MD	US	

US-CL-CURRENT: 530/350; 435/6, 435/7.1, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 4. Document ID: US 6408201 B1

L14: Entry 4 of 11

File: USPT

Jun 18, 2002

US-PAT-NO: 6408201

DOCUMENT-IDENTIFIER: US 6408201 B1

TITLE: Method and apparatus for efficient stenosis identification in peripheral arterial vasculature using MR imaging

DATE-ISSUED: June 18, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Foo; Thomas K. F.	Rockville	MD		
Ho; Vincent B.	North Bethesda	MD		

US-CL-CURRENT: 600/410; 324/300, 324/307, 382/128, 600/419, 600/420

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	FIGS	Drawings
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☐ 5. Document ID: US 6265873 B1

L14: Entry 5 of 11

File: USPT

Jul 24, 2001

US-PAT-NO: 6265873

DOCUMENT-IDENTIFIER: US 6265873 B1

TITLE: Non-CPMG fast spin echo MRI method

DATE-ISSUED: July 24, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Le Roux; Patrick L.	Palaiseau			FR

US-CL-CURRENT: 324/309; 324/307

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 6. Document ID: US 6091243 A

L14: Entry 6 of 11

File: USPT

Jul 18, 2000

US-PAT-NO: 6091243

DOCUMENT-IDENTIFIER: US 6091243 A

TITLE: Water-fat imaging with direct phase encoding (DPE)

DATE-ISSUED: July 18, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Xiang; Qing-San	Vancouver			CA
An; Li	Vancouver			CA

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 7. Document ID: US 6005916 A

L14: Entry 7 of 11

File: USPT

Dec 21, 1999

US-PAT-NO: 6005916

DOCUMENT-IDENTIFIER: US 6005916 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Apparatus and method for imaging with wavefields using inverse scattering techniques

DATE-ISSUED: December 21, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; Steven A.	Salt Lake City	UT		
Borup; David T.	Salt Lake City	UT		
Wiskin; James W.	Salt Lake City	UT		
Natterer; Frank	Muenster			DE
Wubeling; F.	Muenster			DE
Zhang; Yongzhi	Madison	WI		
Olsen; Scott Charles	Salt Lake City	UT		

US-CL-CURRENT: 378/87; 378/98, 600/425, 600/437

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Keywords	Drawings
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☐ 8. Document ID: US 5910728 A

L14: Entry 8 of 11

File: USPT

Jun 8, 1999

US-PAT-NO: 5910728

DOCUMENT-IDENTIFIER: US 5910728 A

TITLE: Simultaneous acquisition of spatial harmonics (SMASH): ultra-fast imaging with radiofrequency coil arrays

DATE-ISSUED: June 8, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sodickson; Daniel Kevin	Cambridge	MA		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Keywords	Drawings
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☐ 9. Document ID: US 5019784 A

L14: Entry 9 of 11

File: USPT

May 28, 1991

US-PAT-NO: 5019784

DOCUMENT-IDENTIFIER: US 5019784 A

**\*\* See image for Certificate of Correction \*\***TITLE: Time symmetric pulse to uniformly rotate magnetization vectors by an arbitrary angle in the presence of large B1 inhomogeneities and resonance offsets

DATE-ISSUED: May 28, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Garwood; Michael	Shorewood	MN		

Ugurbil; Kamil

Maple Plain

MN

US-CL-CURRENT: 324/307; 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMK	Draw D
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☐ 10. Document ID: US 4812760 A

L14: Entry 10 of 11

File: USPT

Mar 14, 1989

US-PAT-NO: 4812760

DOCUMENT-IDENTIFIER: US 4812760 A

TITLE: Multi-dimensional selective NMR excitation with a single RF pulse

DATE-ISSUED: March 14, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bottomley; Paul A.	Clifton Park	NY		
Hardy; Christopher J.	Schenectady	NY		
O'Donnell; Matthew	Schenectady	NY		
Roemer; Peter B.	Schenectady	NY		

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMK	Draw D
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☐ 11. Document ID: US 4694254 A

L14: Entry 11 of 11

File: USPT

Sep 15, 1987

US-PAT-NO: 4694254

DOCUMENT-IDENTIFIER: US 4694254 A

**\*\* See image for Certificate of Correction \*\***TITLE: Radio-frequency spectrometer subsystem for a magnetic resonance imaging system

DATE-ISSUED: September 15, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vatis; Dimitrios	Schenectady	NY		
Smith; Lowell S.	Schenectady	NY		

US-CL-CURRENT: 324/309; 324/313, 324/314, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMK	Draw D
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Term	Documents
OPTIMIZATION	111540
OPTIMISATION	10218
OPTIMISATIONS	282
OPTIMIZATIONS	7353
OPTIMAL\$3	0
OPTIMAL	345052
OPTIMALB	1
OPTIMALCO	1
OPTIMALCY	4
OPTIMALDO	1
OPTIMALE	49
(L13 AND (OPTIMAL\$3 OR OPTIMIZ\$4 OR OPTIMIZATION)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	11

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